

# 17TH ANNUAL MTTA/CITEA VIRTUAL SUMMER CONFERENCE

## SESSION DESCRIPTION

### DAY 1: MONDAY, JULY 20

#### **9:00 AM - 9:15 AM (GMT-7, PT) - Kick Off Intro**

*Presented by MTTA/CITEA and Calpoly Tech*

#### **9:15 AM - 9:50 AM (GMT-7, PT) - Key Note**

*Presented by Carl Bass*

*The Future at making thins, continued.*

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Solidworks 3D Experience for EDU**

*Presented by Mike Leary*

The most advanced software for product and learning innovation, is available in the cloud or on-premises, within your own operating environment. Both options bring new capabilities to educators and students who want to experience the engineering practices of industry leaders for increased employment opportunities in the new global economy. Years of collaboration with educators and students across a wide variety of institutions and disciplines has led to a flexible, tailored set of learning solutions.

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Beginning Sketch Up**

*Presented by Glen Branaman, Retired Woodshop/Construction Teacher*

Visualize Your Ideas Faster And Get Your Project Underway With SketchUp. Teaching Junior High and High School Students the Fundamentals of SketchUp to get them started in Drafting.

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Fusion 360 Basic Part 1**

*Presented by Gaby Waldman-Fried, Technical Program Manager, Autodesk (Education Team)*

Fusion 360 is the world's first cloud-based 3D CAD, CAM, and CAE platform. It brings teams together for collaborative product development, allowing them to work virtually anywhere, with anyone. Fusion 360 is compatible with Macs and PCs. In this hands-on workshops you'll learn best practices for collaborating and designing 3D parametric solid models so you can efficiently model your design ideas.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Erlab Halo Classroom Safety**

*Presented by Jesse Coiro*

How are you going to provide a safe environment for your facilities? Be prepared with professional laboratory grade air purifiers. In this session we will be discussing how aerosolized contaminants spread, the risks and the solutions provided with laboratory grade filtration. Additionally, we will discuss the multi pronged approach the Halo offers in not only capturing the contaminants, but also having the ability to also disperse needle point bipolar ions for disinfection. We will discuss how filtration not only provides a solution for virus mitigation but also provide a means to create a healthier environment against general particulate pollutants and VOCs making the air we breathe in general healthier.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Safety in the Welding Fabrication Workshop**

*Presented by Mark Feuerbach/Greg Hanger*

What are your priorities when it comes to Safety in your school shop facility? You could be inspected by OSHA, Hazardous Materials, Fire Department, and Schools Insurance Authority. You must meet their recommendations or they could shut you down. We will discuss what is most important for the Safety of Students and the Teacher in the Welding Fabrication Shop.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Fusion 360 Basic Part 2**

*Presented by Gaby Waldman-Fried, Technical Program Manager, Autodesk (Education Team)*

Fusion 360 is the world's first cloud-based 3D CAD, CAM, and CAE platform. It brings teams together for collaborative product development, allowing them to work virtually anywhere, with anyone. Fusion 360 is compatible with Macs and PCs. In this hands-on workshops you'll learn best practices for collaborating and designing 3D parametric solid models so you can efficiently model your design ideas.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - Teaching Fractional Measurement**

*Presented by Tom Post, Woodshop-Drafting Teacher/Golden Valley High School*

For students to be successful in our classes they need to measure accurately. This is a challenge for most students. We will discuss best practices for teaching measurement. The more ideas you have in the shop or lab to share with your students the greater your chances of finding one that works for every student.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - Verisurf "Part inspection with one software for all CMM's and PCMM's"**

*Presented by Ray Elledge*

Verisurf demonstrates how fast and easy the basics of part inspection really is. Spend more time working with results rather than getting results. Educators are entitled to Verisurf's full suite of tools. Demonstrated will be the measure module. For further understanding and use of Verisurf ease of use and versatility, one-on-one video meetings will be scheduled upon request.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Immerse2 Learn Virtual Training**

*Presented by Chris Bien, President of Immerse2learn.com*

In this session, Chris will be demonstrating the i2l online learning system for manufacturing and STEM based learning. Our interactive and comprehensive classes are aligned to NIMS skills standards and include CAD, CAM, CNC, inspection, manual machining and core skills in one environment. See why this powerful training system is used by over 500 high schools and colleges throughout North America.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Virtual Office Setup**

*Presented by James Thornburgh*

This session will go over different home office and software setup options for creating online course content and working with students.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Spatial Vis: Remote Learning Sketching App for CAD & Drafting**

*Presented by Lellil Van Den Einde, Co-Founder & President, eGrove Education*

Spatial Vis teaches freehand sketching to improve spatial skills for students in technology and manufacturing courses. Spatial visualization is a fundamental skill for student success when learning CAD, but in a packed curriculum it is challenging for many instructors to add this content to their course. The Spatial Vis app trains students in this skill and provides automatic grading and personalized feedback on their work. The app allows students to work independently without the need for additional class time. This workshop will introduce the Spatial Vis app and best practices for implementation in CAD and technology courses. All participants will receive a free teacher demo account.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Intelitek LMS Virtual Training**

*Presented by David Crowell, Vice President Sales, North America, Intelitek Inc.*

Online learning with simulation tools to provide a solution for virtual technical career instruction. Learn about digital twinning and using software to teach CNC, Robotics, Flexible manufacturing and other automation equipment.

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Introduction to Basic Fluid Dynamics**

*Presented by Greg Hanger, Welding-Metals Teacher/Monache High School*

This presentation will introduce some basic concepts of Fluid Power (Hydraulics and Pneumatics) and how these power systems are used throughout manufacturing and industry. Presentation scope will range from easy classroom demonstrations to complex and powerful shop demonstrators... and beyond??? Be careful... your students might even pick up some extra Mathematics, Geometry and elementary Physics content!

#### **3:00 PM - 3:50 PM (GMT-7, PT) - An Introduction to zSpace**

*Presented by Michael Carbenia*

zSpace is a combined augmented and virtual reality (AR/VR) solution for immersive, interactive, multi-sensory learning experiences. Students can view virtual models in 3D through lightweight glasses, examine them in detail from all angles, and manipulate them fearlessly using a stylus pen, effectively bringing learning to life.

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Brain Co. A.I. Robotics**

*Presented by Josh Varela*

Want to bring AI, STEM, programming and Biomedical Engineering together? Learn how students can use the BrainCo STEM Kit developed from a real life award winning prosthetic. Join us to discover the BrainCo sponsored NeuroMaker Creative Challenge, which invites students to build prototypes to solve real world issues and win recognition and cash prizes!

# 17TH ANNUAL MTTA/CITEA VIRTUAL SUMMER CONFERENCE

## SESSION DESCRIPTION

### DAY 2: MONDAY JULY 21

#### **9:00 AM - 9:15 AM (GMT-7, PT) - Kick Off Intro**

Presented by California Polytechnic State University and MTTA/CITEA

#### **9:15 AM - 9:50 AM (GMT-7, PT) - Key Note**

Presented by Vikram Sr. Director Fusion

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Welding 1 Open Book**

Presented by Steve Hidden/Nick Peterson, Miller Electric

What is OpenBook? How to use the LMS for remote learning this Fall. Live feed with Nick using OpenBook for: Registration, Sign-in, How to add courses and students, How to view student metrics?

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Solidworks 3D Experience for EDU**

Presented by Mike Leary

The most advanced software for product and learning innovation, is available in the cloud or on-premises, within your own operating environment. Both options bring new capabilities to educators and students who want to experience the engineering practices of industry leaders for increased employment opportunities in the new global economy. Years of collaboration with educators and students across a wide variety of institutions and disciplines has led to a flexible, tailored set of learning solutions.

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Spatial Vis: Remote Learning Sketching App for CAD & Drafting**

Presented by Leilil Van Den Einde, Co-Founder & President, eGrove Education

Spatial Vis teaches freehand sketching to improve spatial skills for students in technology and manufacturing courses. Spatial visualization is a fundamental skill for student success when learning CAD, but in a packed curriculum it is challenging for many instructors to add this content to their course. The Spatial Vis app trains students in this skill and provides automatic grading and personalized feedback on their work. The app allows students to work independently without the need for additional class time. This workshop will introduce the Spatial Vis app and best practices for implementation in CAD and technology courses. All participants will receive a free teacher demo account.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Virtual Office Home Setup**

Presented by James Thornburgh

This session will go over different home office and software setup options for creating online course content and working with students.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Safety in the Wood Shop**

Presented by Don Dupont, Retired Woodshop Teacher

This session is an examination and presentation of best safety practices acquired in over 20 years of teaching wood shop in high school and middle school. Included will be access to the latest edition of my meticulously crafted Wood Shop Safety Manual, including a 100 question safety test, and online videos, covering all the basic woodworking machinery, created specifically for use in my high school shop.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Erlab Halo Classroom Safety**

Presented by Jesse Coiro

How are you going to provide a safe environment for your facilities? Be prepared with professional laboratory grade air purifiers. In this session we will be discussing how aerosolized contaminants spread, the risks and the solutions provided with laboratory grade filtration. Additionally, we will discuss the multi pronged approach the Halo offers in not only capturing the contaminants, but also having the ability to also disperse needle point bipolar ions for disinfection. We will discuss how filtration not only provides a solution for virus mitigation but also provide a means to create a healthier environment against general particulate pollutants and VOCs making the air we breathe in general healthier.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - NIMS Part Inspection and Reporting Made Easy with Verisurf**

Presented by Ray Elledge

Verisurf demonstrates how fast and easy the basics of part inspection really is. Spend more time working with results rather than getting results. Educators are entitled to Verisurf's full suite of tools. Demonstrated will be the measure module. For further understanding and use of Verisurf ease of use and versatility, one-on-one video meetings will be scheduled upon request.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - MasterCAM Project 1**

Presented by Mark McCollough

We recently launched the Mastercam Quick Part Series. The Mastercam Quick Part Series is an initiative to provide free, project-based tutorials for teachers. The tutorials are guided projects that take students through the CAD/CAM/CNC process from project start to a finished part. Students learn about manufacturing terminology, techniques, and processes while using the world's leading CAD/CAM software.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - Model House Building at Home**

Presented by Marty Mangan, Retired Woodshop-Cabinetery Teacher

Here's a possible hands-on activity that your students could do at home and certainly can do when they're back in your shop. This small model was developed by David Sorenson of Simi high school. Tune in and see what it's all about.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - MasterCAM Project 2**

Presented by Mark McCollough

We recently launched the Mastercam Quick Part Series. The Mastercam Quick Part Series is an initiative to provide free, project-based tutorials for teachers. The tutorials are guided projects that take students through the CAD/CAM/CNC process from project start to a finished part. Students learn about manufacturing terminology, techniques, and processes while using the world's leading CAD/CAM software.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Sketch Up S/P2: Preparing Your Students for a Lifelong Career**

Presented by Kyle Holt

#### **2:00 PM - 2:50 PM (GMT-7, PT) - MasterCAM Project 3**

Presented by Mark McCollough

We recently launched the Mastercam Quick Part Series. The Mastercam Quick Part Series is an initiative to provide free, project-based tutorials for teachers. The tutorials are guided projects that take students through the CAD/CAM/CNC process from project start to a finished part. Students learn about manufacturing terminology, techniques, and processes while using the world's leading CAD/CAM software.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Using the Universal Fabricator**

Presented by Greg Hanger, Welding-Metals Teacher/Monache High School

Introduction, demonstrations and discussion on using the Universal Fabricator from Shop Outfitters in the Welding Fabrication shop. This pneumatic/Hydraulic bending unit allows students to get very creative in manufacturing parts for their welding/metals projects. This presentation will offer demonstrations and suggestions for using this creative device.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Intelitek LMS Virtual Training**

Presented by David Crowell, Vice President Sales, North America, Intelitek Inc.

Online learning with simulation tools to provide a solution for virtual technical career instruction. Learn about digital twinning and using software to teach CNC, Robotics, Flexible manufacturing and other automation equipment.

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Generative Design**

Presented by John Peros, Sr. Technical Program Manager, Autodesk

Discover generative design and what's unique about this new technology and how it's transforming Advanced Manufacturing.

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Brain Co. A.I Robotics**

Presented by Josh Varela

Want to bring AI, STEM, programming and Biomedical Engineering together? Learn how students can use the BrainCo STEM Kit developed from a real life award winning prosthetic. Join us to discover the BrainCo sponsored NeuroMaker Creative Challenge, which invites students to build prototypes to solve real world issues and win recognition and cash prizes!

#### **3:00 PM - 3:50 PM (GMT-7, PT) -Bargaining on Behalf of CTE**

Presented by Ruth Luevand/Mike Patterson, CTA Representatives)

The unique process of CTE credentialing that must account for members who may not have a bachelor's degree, may not accrue units in a traditional sense, and have years of relevant industry experience prior to teaching creates inequities in salary schedule placement and advancement.

# 17TH ANNUAL MTTA/CITEA VIRTUAL SUMMER CONFERENCE

## SESSION DESCRIPTION

### DAY 3: WEDNESDAY, JULY 22

#### **9:00 AM - 9:15 AM (GMT-7, PT) - Kick Off Intro**

Presented by California Polytechnic State University and MTTA/CITEA

#### **9:15 AM - 9:50 AM (GMT-7, PT) - Key Note**

Presented by Kathy Looman Haas Foundation

The Haas Technical Education Center (HTEC) Network is a worldwide organization of manufacturing technology educators who leverage the capabilities and technologies of Haas Automation, the Haas Factory Outlet (HFO) network, and Industry Partners to develop the best manufacturing practices and educational methods, and exploit the power of modern, advanced manufacturing equipment for educational purposes. The program was established to transform CNC classrooms into high-tech, advanced manufacturing labs and upskill the field of educators to ensure the highest level of CNC education possible.

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Solidworks 3D Experience for EDU**

Presented by Mike Leary

The most advanced software for product and learning innovation, is available in the cloud or on-premises, within your own operating environment. Both options bring new capabilities to educators and students who want to experience the engineering practices of industry leaders for increased employment opportunities in the new global economy. Years of collaboration with educators and students across a wide variety of institutions and disciplines has led to a flexible, tailored set of learning solutions.

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Solidworks Certification EDU**

Presented by Ryan Koehler, Professional Channel Territory Sales Manager

COVID-19 has had an impact on all of us but in many ways it has created more free time. Let's use this added time to help boost students resumes so they have the edge when going for a job! We will discuss how to leverage our subscription benefits to help highlight your school and build resumes.

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Welding 2 GMAW Fundamentals**

Presented by Miller Electric

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Welding Instruction at the High School Level**

Presented by Mark Feuerbach, Liberty Ranch High School/Welding Teacher

What welding processes should you teach in your program? What welding techniques should you teach your students? How are you going to grow your program and keep your student numbers up? After working in Industry for 10 years and teaching welding for 32 years I will give some friendly advice on how to build a successful welding program.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Verisurf "Part inspection with one software for all CMM's & PCMM's"**

Presented by Ray Elledge

Verisurf demonstrates how fast and easy the basics of part inspection really is. Spend more time working with results rather than getting results. Educators are entitled to Verisurf's full suite of tools. Demonstrated will be the measure module. For further understanding and use of Verisurf ease of use and versatility, one-on-one video meetings will be scheduled upon request.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Virtual Office Home Setup**

Presented by James Thornburgh

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#### **12:00 PM - 12:50 PM (GMT-7, PT) - An Introduction to zSpace**

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#### **12:00 PM - 12:50 PM (GMT-7, PT) - Pen Turning**

Presented by Tom Post, Woodshop-Drafting Teacher/Golden Valley High School

Students love making pens because they produce a quick inexpensive project that is very beautiful and rewarding. This presentation will show the entire pen making process. Receive a copy of powerpoint and related lesson files.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - Eriab Halo Classroom Safety**

Presented by Jesse Coiro

How are you going to provide a safe environment for your facilities? Be prepared with professional laboratory grade air purifiers. In this session we will be discussing how aerosolized contaminants spread, the risks and the solutions provided with laboratory grade filtration. Additionally, we will discuss the multi pronged approach the Halo offers in not only capturing the contaminants, but also having the ability to also disperse needle point bipolar ions for disinfection. We will discuss how filtration not only provides a solution for virus mitigation but also provide a means to create a healthier environment against general particulate pollutants and VOCs making the air we breathe in general healthier.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Immerse2 Learn Virtual Training**

Presented by Chris Bien, President of Immerse2Learn.com

In this session, Chris will be demonstrating the i2L online learning system for manufacturing and STEM based learning. Our interactive and comprehensive classes are aligned to NIMS skills standards and include CAD, CAM, CNC, inspection, manual machining and core skills in one environment. See why this powerful training system is used by over 500 high schools and colleges throughout North America.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Fusion 360 Advanced Part 1**

Presented by Gaby Waldman-Fried, Technical Program Manager, Autodesk (Education Team)

Fusion 360 is the world's first cloud-based 3D CAD, CAM, and CAE platform. It brings teams together for collaborative product development, allowing them to work virtually anywhere, with anyone. Fusion 360 is compatible with Macs and PCs. In this hands-on workshops you'll expand your 3D modeling techniques in Fusion 360 by learning how to import files, work with versions, create photo realistic renderings and how to create an STL file that can be sent to a 3D printer.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Miller Welding 3 GTAW Fundamentals**

Presented by Chris Monroe & Eric Blau, Miller Electric

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Intelitek LMS Virtual Training**

Presented by David Crowell, Vice President Sales, North America, Intelitek Inc.

Online learning with simulation tools to provide a solution for virtual technical career instruction. Learn about digital twinning and using software to teach CNC, Robotics, Flexible manufacturing and other automation equipment.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Plans and Ideas for Building a Nightstand**

Presented by Tim Newby, Woodshop-Cabinetry Teacher/Monache High School

I have been working with CTE Online to create a Pathway of 3 woodworking courses. An Introductory Woodworking, Intermediate Woodworking and Advanced Woodworking Course. Here are the links to each Course: [Introductory Woodworking](#), [Intermediate Woodworking](#), [Advanced Woodworking](#). Imbedded in these courses are the skills needed to build a Night Stand Project. I have broken the project down into 5 Lessons: [Cabinet Case](#), [Face Frame](#), [Cabinet Door](#), [Cabinet Drawer](#), [Solid Wood Top](#). In this session, we can discuss this project and how you could implement it into your class. Please examine each lesson before the session and have a list of questions, comments, suggestions or ideas that we can take a look at.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Fusion Advanced 360 Part 2**

Presented by Gaby Waldman-Fried, Technical Program Manager, Autodesk (Education Team)

In this hands-on workshops you'll expand your 3D modeling techniques in Fusion 360 by learning how to import files, work with versions, create photo realistic renderings and how to create an STL file that can be sent to a 3D printer.

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Brain Co. A.I. Robotics**

Presented by Josh Varela, Associate Director of Strategic Partnerships, BrainCo

Want to bring AI, STEM, programming and Biomedical Engineering together? Learn how students can use the BrainCo STEM Kit developed from a real life award winning prosthetic. Join us to discover the BrainCo sponsored NeuroMaker Creative Challenge, which invites students to build prototypes to solve real world issues and win recognition and cash prizes!

# 17TH ANNUAL MTTA/CITEA VIRTUAL SUMMER CONFERENCE

## SESSION DESCRIPTION

### DAY 4: THURSDAY, JULY 23

#### **9:00 AM - 9:15 AM (GMT-7, PT) - Kick Off Intro**

*Presented by California Polytechnic State University and MTTA/CITEA*

#### **10:00 AM - 10:50 AM (GMT-7, PT) - Solidworks 3D Experience for EDU**

*Presented by Mike Leary*

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#### **10:00 AM - 10:50 AM (GMT-7, PT) - Generative Design**

*Presented by John Peros, Sr. Technical Program Manager, Autodesk*

Discover generative design and what's unique about this new technology and how it's transforming Advanced Manufacturing.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Erlab Halo Classroom Safety**

*Presented by Jesse Coiro*

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#### **11:00 AM - 11:50 AM (GMT-7, PT) - Virtual Office Home Setup**

*Presented by James Thornburgh*

This session will go over different home office and software setup options for creating online course content and working with students.

#### **11:00 AM - 11:50 AM (GMT-7, PT) - Solidworks xDesign/xShape Your Cloud-Based CAD Solution**

*Presented by James Thornburgh*

Looking for a Cloud-Based CAD solution for your 2020 school year? Come take a look at xDesign and xShape and see the power of the 3DEXPERIENCE Platform!

#### **12:00 PM - 12:50 PM (GMT-7, PT) - Macinable Wax Project**

*Presented by Fred Koehler*

Machinable wax for foundry patterns.

#### **12:00 PM - 12:50 PM (GMT-7, PT) - NIMS Part Inspection and Reporting Made Easy with Verisurf**

*Presented by Ray Elledge*

Verisurf demonstrates how fast and easy the basics of part inspection really is. Spend more time working with results rather than getting results. Educators are entitled to Verisurf's full suite of tools. Demonstrated will be the measure module. For further understanding and use of Verisurf ease of use and versatility, one-on-one video meetings will be scheduled upon request.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Quick and Easy Production of Instructional Shop Videos**

*Presented by Tim Newby, Woodshop-Cabinetry Teacher/Monache High School*

When we transitioned to Distance Learning, I created around 25 videos on woodworking for my students. I had very little experience creating videos but found using my laptop to record the videos was great because you can see what is being recorded on the laptop screen. Also, Windows 10 have a Video Editor installed that is simple to use to edit the video, add text, and music. During this session I will show you how to record a video and go through the steps of editing it using a laptop.

#### **1:00 PM - 1:50 PM (GMT-7, PT) - Fusion CAM Workshop Part 1**

*Presented by Gaby Waldman-Fried, Technical Program Manager, Autodesk (Education Team)*

Want to learn about subtractive manufacturing cnc/cam? If so, this class is for you. In this hands-on workshop you'll learn how to use utilize Fusion 360's CAM tools to create; a milling setup, 2D and 3D toolpaths, simulate toolpaths and how to output a POST file for your CNC.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Intelitek LMS Virtual Training**

*Presented by David Crowell, Vice President Sales, North America, Intelitek Inc.*

Online learning with simulation tools to provide a solution for virtual technical career instruction. Learn about digital twinning and using software to teach CNC, Robotics, Flexible manufacturing and other automation equipment.

#### **2:00 PM - 2:50 PM (GMT-7, PT) - Fusion CAM Workshop Part 2**

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*Presented by Josh Varela, Associate Director of Strategic Partnerships, BrainCo*

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#### **3:00 PM - 3:50 PM (GMT-7, PT) - Shop Talk Round Tables Manufacturing**

*Presented by Mark Feuerbach*

This is a post conference discussion with other teachers in your subject matter area. We will discuss what you liked about the conference, things that we could improve on and sessions that we could add.

This is also a time to talk about things you want to share with the group such as but not limited to: project ideas, professional development, equipment and machines, shop supplies, lesson plans, curriculum and classroom management. See you there!

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Shop Talk Round Tables Drafting**

*Presented by TBD*

This is a post conference discussion with other teachers in your subject matter area. We will discuss what you liked about the conference, things that we could improve on and sessions that we could add.

This is also a time to talk about things you want to share with the group such as but not limited to: project ideas, professional development, equipment and machines, shop supplies, lesson plans, curriculum and classroom management. See you there!

#### **3:00 PM - 3:50 PM (GMT-7, PT) - Shop Talk Round Tables Woodworking**

*Presented by Tom Post*

This is a post conference discussion with other teachers in your subject matter area. We will discuss what you liked about the conference, things that we could improve on and sessions that we could add.

This is also a time to talk about things you want to share with the group such as but not limited to: project ideas, professional development, equipment and machines, shop supplies, lesson plans, curriculum and classroom management. See you there!